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ON

VACCINATION IN BURMA

FOR THE YEAR 1927-28

Rangoon
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1928

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NOTES AND STATISTICS

ON

VACCINATION IN BURMA

For the Year 1927-28.

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1. *Establishment.*—The following table gives the strength of the vaccination staff actually employed in the Province during the year 1927-28 and the two preceding years :— Statement II.

Years.	District Superintendents of Vaccination.	Part-time Supervising Officers.		Inspectors of Vaccination.	Head Vaccinators.	Vaccinators.
		S.A.S.	P.H.I.			
1925-26 ...	41	27	8	44	1	365
1926-27 ...	41	28	9	42	1	377
1927-28 ...	41	28	11	43	1	384

One temporary Inspector of Vaccination and 23 Vaccinators were employed to cope with outbreaks of small-pox in Akyab and Rangoon Towns, and in Pegu, Amherst, Minbu, Yamèthin and Shwebo Districts. The employment of 10 Circle Board Clerks as *ex-officio* vaccinators in Hanthawaddy District ceased during the year.

Nine vaccinators resigned their appointments, six were either removed or dismissed from the service, three died and two were placed on the retired list.

2. *General Review.*—It is encouraging to note that notwithstanding a lower incidence of small-pox than in the two previous years, there was more vaccination done than in any of the last ten. There has been a more or less continuous increase ever since 1921-22 ; the reasons being that vaccination is now compulsory in many districts, that a larger Vaccination staff is employed, that communications are steadily improving and that the people are gradually realising the benefits of vaccination.

3. *Total number of Persons Vaccinated.*—The total number was 957,317 as compared with 805,872 in the previous year.

4. *Operations Performed.*—The total number of operations performed during the year was 870,402 (primary 550,154 and re-vaccinations 320,248) as compared with 720,551 (primary 511,750 and re-vaccinations 208,801) in the previous year—an increase of 149,851. An increase in total operations was returned from 23 districts and a decrease from 18. Rangoon headed the list with an increase of 58,591 operations followed by Akyab with 25,565 and by Magwe with 23,405. In these three districts there was a great increase in re-vaccination work as a result of the presence of small-pox. In each place additional temporary vaccinators were engaged and vaccination was pushed vigorously. Prominent amongst districts in which increased work was recorded were the Southern Shan States (+15,189), Pegu (+9,748), Shwebo (+9,117), Toungoo (+6,848), Tavoy (+6,247), Lower Chindwin (+5,020), Pyapôn (+4,038), Salween (+3,213) and the Northern Shan States (+3,146). In all these small-pox was more or less prevalent with the result that people came forward for protection willingly.

Of the 18 districts from which a smaller number of operations was returned, Sagaing District was the worst as no less than 5,764 fewer were reported than in the previous year. The District Health Officer explained the decrease as being due to the relative absence of small-pox from the district, although 414 attacks with 77 deaths were recorded. There is no doubt that the work was not pushed as it should have been. In Upper Chindwin also 5,427 fewer operations were recorded than last year. Here also the District Health Officer pleaded less small-pox. This may have been true but a larger vaccination staff is required in this district. A large reduction was also reported from Myingyan where 5,161 fewer operations were performed than in the previous year. The decrease was more marked in re-vaccination than in primary cases and undoubtedly the absence of small-pox in epidemic form was a factor as only 19 attacks with two deaths were reported and only four villages were affected, but the non-employment of an Inspector of Vaccination throughout most of 1927 and the placing of Vaccinators on plague duty were contributory causes. In Prome District 3,110 fewer operations were recorded—all under re-vaccination.

In Sandoway there has been a continuous decline in vaccination since 1924-25 :—

1924-25	...	...	8,992
1925-26	...	...	7,497
1926-27	...	...	6,242
1927-28	...	...	5,351

Various reasons have been given but as there is no Inspector, want of supervision is probably the real one.

5. *Primary Operations.*—550,154 primary operations were recorded in all the 41 districts of the Province or an increase of 38,404 over the previous year's output. The largest increase was in the Southern Shan States where 13,202 more operations were performed than in the previous year. Next came Shwebo with an increase of 5,069 followed by Magwe with an increase of 4,288. Prominent amongst districts with an appreciable increase in primary vaccination were Toungoo (+3,779), Pegu (+3,427), Northern Shan States (+3,397), Akyab (+3,232) and Pyapôn (+3,130). Statement I.

In only four of the 17 districts in which smaller numbers of primary operations were recorded was there a large deficit—Upper Chindwin, Myaungmya, Sagaing and Thatôn. In them 2,874, 2,757, 2,439 and 2,156 fewer operations were registered respectively than in the previous year.

6. *Re-vaccination.*—320,248 re-vaccinations were performed as compared with 208,801 in the previous year, an increase of 111,447. Statement I.

As stated elsewhere in this report, the largest amount of re-vaccination work was done in Rangoon where 82,992 operations were performed as against 25,301 in the previous year—an increase of 57,691 operations. In Akyab District there was an increase of 22,333 and in Magwe an increase of 19,117. Substantial increases were also returned from the following :—Pegu (+6,321), Tavoy (+6,066), Shwebo (+4,048), Lower Chindwin (+3,564), Toungoo (+3,069) and Salween (+2,154).

Large decreases were returned from Prome and Myingyan. In the former a deficit of 4,861 operations was registered and in the latter 4,319. From Sagaing District a deficit of 3,325 re-vaccinations was recorded and from Kyaukse and Upper Chindwin 2,682 and 2,553, respectively.

7. *Results of Vaccination.*—Of the 550,154 primary operations 482,304 were successful as compared with 472,368 in 1926-27. Of 320,248 re-vaccinations 102,917 were successful as against 61,531 in the previous year. The results of 26,807 primary operations were unknown as compared with 22,924 in the previous year, leaving 41,043 failures as against 16,458 last year. Of the total of 482,304 successful primary vaccinations 140,728 were on children under one year of age and 252,996 on children of one to six years. The remaining 88,580 successful primary vaccinations were on persons over six years of age. Statement I

The percentage of successes in primary vaccination of which the results were known was 92·16 and in re-vaccination 39·88 as against 96·63 and 35·97 respectively in the previous year.

The highest successful rate in primary vaccination (99·68) was again recorded in Tharrawaddy District. Prome which held the second place in success rate last year retained its position with 99·37 per cent. Ma-ubin came third with a rate of 99·24. A success rate of over 98 per cent

was obtained in Pegu and Toungoo and over 97 per cent in Rangoon, Amherst, Myitkyina and Northern Shan States Districts. Over 95 per cent was obtained in Myaungmya and Salween and over 90 per cent in the districts of Hill District of Arakan, Kyaukpyu, Bassein, Henzada Minbu, Magwe, Pakôkku Hill Tracts, Myingyan, Bhamo, Katha and Upper Chindwin. The lowest success rate (67·04 per cent) was recorded in Mergui District.

8. *Vaccination in Towns.*—In 68 Municipalities and notified areas to which the Vaccination Acts have been extended 173,690 operations were performed, an increase of 76,394 over the previous year. The increase was almost entirely made up of re-vaccinations as there were 73,510 more than last year. Of the total operations 49,299 were primary and 124,391 re-vaccinations.

A marked increase in primary vaccination was recorded in the following towns :—Rangoon (+900), Toungoo (+ 456), Thayetmyo (+320), Pegu) + 304), Bassein (+ 299), Akyab (+ 271), Mawlamyainggyun (+ 208) and Pakôkku (+ 204).

A large decrease took place in Mergui Town where 720 fewer operations than last year were recorded. Mandalay came next with a deficit of 335 and Pyapôn with 321. Deficits of over 100 were returned from Shwedaung, Kyônpyaw, Henzada, Kyaiklat and Moulmein. Among these five towns the record of Kyônpyaw was particularly bad. In a population of 6,884, only 90 persons were vaccinated during the year as against 231 last year. As 150 births were recorded it is obvious that the Vaccination Acts are not being enforced and that there must be a growing population of unprotected children. Unless adequate measures are taken an epidemic of small-pox is inevitable sooner or later.

There was an increase in re-vaccination work in 42 towns and a decrease in 24.

Out of a total of 124,391 re-vaccination cases recorded in the different towns in the Province nearly three-fourths were done in Rangoon. Appreciable increases in re-vaccination were recorded in Akyab (+4,311), Pegu (+2,228), Toungoo (+2,008), Syriam (+1,001); Taungdwingyi (+802), Meiktila (+723), Insein (+627), Moulmein (+627), Henzada (+617), Mergui (+551), Pyapôn (+528), Pyinmana (+492), Thayetmyo (+470) and Tavoy (+319). Large decreases were recorded in Prome (−463), Paungdè (−291), Bassein (−265), Mônywa (−260) and Myingyan (−200).

9. *Results of Vaccination in Towns.*—43,735 primary operations, or 93·41 per cent. and 43,954 re-vaccinations or 48·14 per cent. were successful as against 94·78 and 41·91 per cent. respectively last year.

Cent per cent successes in primary cases were reported from 17 places—Akyab, Tharrawaddy, Thônzè, Letpadan, Gyobingauk, Minhla, Nattalin, Insein, Paungdè, Kyônpyaw, Myanaung, Myaungmya, Wakèma, Ma-ubin, Kawkareik, Shwegyin and Nyaung-U and in eight towns the percentage of successful operations were over 99 per cent. Between 95 and 99 per cent. of successes were returned from eleven towns. The lowest percentage in primary cases (59·79) was recorded in Lashio.

In re-vaccination cent per cent. successes were obtained in Akyab, in Bassein 87·79 per cent, Shwebo 81·03, Ngathainggyaung 78·95, Pyu 75·93 and Taungdwingyi 70·47.

10. *Infant Vaccination.*—It is possible to show by an estimation of the number of infants available for vaccination in the various towns after making due allowance for infantile mortality that a large number of infants are not vaccinated at the time it becomes compulsory. In fact, the Vaccination Acts are not properly enforced. The result is that many children escape vaccination altogether and add fuel to the fire when small-pox breaks out. The position in Kyônpyaw has already been commented upon in paragraph 8 but similar conditions though in less serious degree exist in a number of Municipalities. Appendix B

11. *Dispensary Vaccination.*—Vaccination was done in dispensaries in 18 districts only. 9,230 operations were performed as against 5,185 operations in the previous year, or an increase of 4,045. As in the previous year the bulk of dispensary vaccination work was done in Myitkyina District where 4,982 operations were performed as against 3,121 in 1926-27 or an increase of 1,861. Other districts which returned a large increase were the Northern Shan States (+790), Upper Chindwin (+337), the Southern Shan States (+258) and Mandalay (+252). Statement III.

12. *Jail Vaccination.*—In the Jails 34,867 prisoners were vaccinated. Of these 1,370 were primary operations and 33,497 re-vaccinations. Of the primary 1,110 were successful and of re-vaccination 17,834 yielding a success rate of 81·02 and 53·24 per cent respectively.

13. *Vaccination by Private Practitioners.*—These performed 3,443 operations of which 253 were primary and 3,190 re-vaccinations. 229 primary operations and 871 re-vaccinations were successful. The results of 12 primary and 1,471 re-vaccinations were unknown—the success rates recorded in known cases being 95·02 and 50·67 per cent respectively. Summary Statement No. I.

14. *Steamer Vaccination.*—Under the provisions of section 9 of the Burma Vaccination Law Amendment Act of 1909, 44,937 labourers landing at the Port of Rangoon were vaccinated by the Corporation Vaccination Staff under the supervision of the Port Health Staff as against 49,763 in the previous year. The results are unknown.

Statement V.

15. *Verification Work of Inspecting Officers.*—Of the total number of 877,744 persons vaccinated the results of 74,374 or 8·74 per cent were inspected by District Health Officers and Assistant District Health Officers as against 8·80 per cent in the previous year. Inspectors of Vaccination and other Inspecting Officers verified the results of 286,874 or 51·72 per cent of primary cases and 152,078 or 47·07 per cent of re-vaccinations. Dr. Ba Than Chain, District Health Officer, Tavoy, inspected 66·16 per cent of primary operations and 40·41 per cent of re-vaccinations and the District Health Officer of Upper Chindwin, Lieutenant P. Bell, I.M.D., inspected 42·35 primary operations and 39·00 re-vaccinations, but in many districts a very small amount of verification work was done by District Health Officers. The Inspectors of Tharrawaddy and Tavoy Districts each inspected over 75 per cent of primary cases in addition to 42·43 and 67·68 per cent of re-vaccinations respectively. Over 70 per cent of primary cases and over 54 and 41 per cent of re-vaccinations were checked by the Inspectors of Kyauksè and Amherst Districts respectively. On the other hand, in Thatôn where two Inspectors are employed only 44·81 per cent of primary cases and 36·92 per cent of re-vaccinations were checked.

Statement II.

16. *Cost of the Department.*—The total cost of the Department was Rs. 4,03,228-12-3 as against Rs. 3,86,245-10-1 in the previous year or an increase of Rs. 16,983-2-2. This increase was mainly due to increased expenditure under " Pay of Establishment " consequent on the appointment of a whole-time Director and on annual increments drawn by the employees.

The average cost of each successful vaccination was Rs. 0-11-1 as against Rs. 0-11-7 in the previous year.

17. *Small-pox Inoculation.*—Inoculators were discovered in Prome, Myaungmya, Pyapôn, Toungoo and Southern Shan States. In the first four districts both inoculators and inoculated persons were prosecuted and punished with fines ranging from Rs. 10 to Rs. 20 and in some cases convicted inoculators were sent to prison.

18. *Prosecution under Vaccination Acts.*—427 prosecutions for infringement of the Acts were launched in Hanthawaddy, Myaungmya, Amherst, Mergui and Tavoy Districts and the convicted were punished with fines ranging from Re. 1 to Rs. 10. Most of these prosecutions took place in Myaungmya and Amherst Districts.

19. *Work of the Vaccine Depôt, Meiktila.*—A hostel for students undergoing training has been built and a small laboratory for testing lymph bacteriologically has been opened. A gas plant for the laboratory and an ice-chest for storing lymph at a temparature below—10°C. of the pattern used at the Government Vaccine Depôt, Bandoeng, Java, have

been installed. Since June bacteriological tests have been done at the Depôt instead of at the Harcourt Butler Institute of Public Health, Rangoon. An electric pump for raising water from the lake has been put in and further improvements are under consideration.

Output of Lymph.—387 cow-calves and 10 buffalo-calves were successfully vaccinated. 18 of the former failed to take or yielded lymph of such poor quality that it had to be destroyed. The cow-calves gave an average lymph yield of 29·62 grammes and the buffalo-calves 134 grammes. The following table contrasts the output and issue of lymph during the year under report and the two previous years :—

Year.	Number of calves.	Total yielded.		Average yield per calf.		Number of doses issued.
		Oz.	Grams.	Grams.	Grains.	
1925-26 ...	401	364·55	10,335	25·77	397·67	1,100,167
1926-27 ...	485	411·43	11,664	24·05	370·36	974,229
1927-28	387 (cow)	404·33	11,463	29·62	457·09	1,136,232
	10 (buff.)	47·26	1,340	134·0	2069·88	

It should be noted that a larger quantity of lymph was obtained from a smaller number of calves. 219,196 doses were sold to the Health Officer, Rangoon, the Burma Railway Co. and private persons, and the balance was supplied free to local bodies and the Army. At the beginning of the year lymph was prepared by Gins' phenol method, but after a series of experiments glycerinated lymph was re-adopted and remained in use for the rest of the year.

Finance.—The gross revenue earned from the sale of lymph and calves was Rs. 10,090-12-0 as against Rs. 9,221-12-3 in the previous year.

The net expenditure of the Depôt was Rs. 30,213-12-6 as compared with Rs. 22,430-3-6 in the previous year or an increase of Rs. 7,783-9-0 due to the appointment of a whole-time Director and to the increased expenditure on account of drugs and instruments for the Depôt.

20. *Training Class.*—67 students comprising two Sub-Assistant Surgeons, 18 Public Health Inspectors and 47 Apprentice Vaccinators were trained in vaccination.

21. *General Remarks.*—Mr. G. H. Blaker, I.M.D., was in charge of the Depôt throughout the year, except for a short period when he was deputed to Madras to study the preparation of lymph at the King Institute of Preventive Medicine, Guindy. During his absence Dr. J. J. G. DaCosta, L.M. & S., Civil Surgeon, Meiktila, officiated. U Thaw Zan acted as Assistant Director for the whole year.

E. BISSET, *Lieut.-Col., I.M.S.,*
Director of Public Health, Burma.

RANGOON, *the 23rd July* 1928.

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A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No. (1)	Divisions and Districts. (2)	Population of districts according to Census of 1921. (3)	Average population per square mile. (4)	Average number of vaccinators employed throughout the year. (5)	Total number of persons vaccinated. (6)		
					Males.	Females.	Total.
	ARAKAN DIVISION.						
1	Akyab District	576,430	112	13	25,080	21,271	46,351
	Rural	539,861	...	11	20,664	19,561	40,225
	Urban	36,569	...	2	4,416	1,710	6,126
2	Hill District of Arakan ...	20,914	14	3	870	465	1,335
3	Kyaukpyu District ...	199,873	46	6	5,251	4,910	10,161
	Rural	195,989	...	6	5,167	4,854	10,021
	Urban	3,884	...	...	84	56	140
4	Sandoway District ...	112,029	30	4	2,804	2,547	5,351
	Rural	108,267	...	3	2,694	2,447	5,141
	Urban	3,762	...	1	110	100	210
	PEGU DIVISION.						
5	Rangoon	345,505	4,487	22	78,144	16,163	94,307
6	Pegu District	445,620	109	8	14,671	14,426	29,097
	Rural	419,355	...	6	11,801	12,062	23,863
	Urban	26,265	...	2	2,870	2,364	5,234
7	Tharrawaddy District ...	492,429	172	13	12,887	13,891	26,778
	Rural	449,000	...	8	12,038	13,144	25,182
	Urban	43,429	...	5	849	747	1,596
8	Hanthawaddy District ...	364,624	195	9	13,239	11,062	24,301
	Rural	341,278	...	7	8,639	10,420	19,059
	Urban	23,346	...	2	4,600	642	5,242
9	Insein District	289,540	152	8	7,615	8,614	16,229
	Rural	254,031	...	6	6,010	7,392	13,402
	Urban	35,509	...	2	1,605	1,222	2,827
10	Prome District	371,575	127	13	13,799	13,975	27,774
	Rural	322,246	...	9	11,817	12,328	24,145
	Urban	49,329	...	4	1,982	1,647	3,629
	IRRAWADDY DIVISION.						
11	Bassein District ...	489,473	119	16	12,266	12,339	24,605
	Rural	434,904	...	11	10,695	11,006	21,701
	Urban	54,569	...	5	1,571	1,333	2,904

† Work done by

DEPARTMENT.

Province of Burma during the year 1927-28 (Paragraphs 4, 5, 6 and 7).

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
3,565	20,493	2,709	11,523	17,909	465	1
3,657	19,429	2,326	11,003	17,006	304	
3,063	1,064	383	520	903	161	
445	702	...	367	633	...	2
1,694	8,512	844	3,623	7,319	628	3
1,670	8,434	801	3,602	7,253	624	
...	78	43	21	66	4	
1,338	4,300	968	1,838	3,537	332	4
1,714	4,136	894	1,799	3,401	331	
210	164	74	39	136	1	
4,134	† 11,315	7,325	2,015	9,731	1,343	5
3,637	17,117	5,734	8,150	16,010	891	6
3,977	15,064	4,778	7,624	14,203	756	
2,617	2,053	956	526	1,807	135	
2,059	19,500	5,263	12,329	18,787	653	7
3,148	18,497	4,635	12,022	17,821	624	
319	1,003	628	307	966	29	
2,700	16,795	3,706	8,173	14,112	399	8
2,723	16,137	3,429	7,887	13,538	393	
2,621	658	277	286	574	6	
2,029	11,537	3,154	4,300	9,644	418	9
2,234	9,871	2,413	3,502	8,056	398	
1,814	1,666	741	798	1,588	20	
2,136	23,864	6,045	15,996	23,345	370	10
2,683	21,409	4,362	15,360	20,987	289	
907	2,455	1,683	636	2,358	81	
1,538	19,894	4,871	7,524	17,697	716	11
1,973	17,835	3,462	7,051	15,675	698	
581	2,059	1,409	473	2,022	18	

other agencies included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	ARAKAN DIVISION.						
1	Akyab District	25,858	11,768	5,159	89·42	56·85	51·48
	Rural	20,796	10,033	1,832	88·92	52·91	50·09
	Urban	5,062	1,735	3,327	100·00	100·00	72·14
2	Hill District of Arakan ...	633	335	...	90·17	52·92	46·28
3	Kyaukpyu District ...	1,649	624	257	92·83	44·83	39·74
	Rural	1,587	602	255	92·87	45·20	40·08
	Urban	62	22	2	89·19	36·67	22·66
4	Sandoway District ...	1,051	53	109	89·14	5·63	32·05
	Rural	1,005	46	109	89·38	5·13	31·84
	Urban	46	7	...	83·44	15·22	38·01
	PEGU DIVISION.						
5	Rangoon	†82,992	29,324	25,259	97·58	50·79	113·04
6	Pegu District	11,980	2,497	3,551	98·67	29·62	41·53
	Rural	8,799	1,537	2,684	99·27	25·13	37·53
	Urban	3,181	960	867	94·21	41·49	105·35
7	Tharrawaddy District ...	7,278	2,403	1,938	99·68	45·00	43·03
	Rural	6,685	2,163	1,874	99·71	44·96	44·51
	Urban	593	240	64	99·18	45·37	27·78
8	Hanthawaddy District ...	7,506	1,967	611	86·07	28·53	44·10
	Rural	2,922	580	166	85·99	21·04	41·37
	Urban	4,584	1,387	445	88·04	33·51	84·00
9	Insein District	4,692	718	372	86·73	16·62	35·79
	Rural	3,531	480	358	85·04	15·13	33·60
	Urban	1,161	238	14	96·48	20·75	51·42
10	Prome District	3,910	931	838	99·37	30·31	65·33
	Rural	2,736	690	598	99·37	32·27	67·27
	Urban	1,174	241	240	99·33	25·80	52·69
	IRRAWADDY DIVISION.						
11	Bassein District ...	4,711	1,867	885	92·28	48·80	39·97
	Rural	3,866	1,189	834	91·47	39·22	38·78
	Urban	845	678	51	99·07	85·39	49·48

† Work done by

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
2·27	19·95	24,109	41·82	188	·33	1
1·56	8·81	...	...	...	...	
15·13	65·73	...	...	...	...	
...	...	1,254	59·94	...	...	2
7·38	15·59	11,525	57·66	27	·13	3
7·40	16·07	...	...	...	...	
5·13	3·23	...	...	...	...	
7·72	10·37	5,478	48·90	24	·22	4
8·00	10·85	...	...	...	...	
·61	...	...	...	...	...	
11·87	30·44	20,555	59·74	241	·70	5
5·21	29·64	15,588	34·98	136	·31	6
5·02	30·50	...	...	...	...	
6·58	27·26	...	...	...	...	
3·35	26·63	22,439	45·57	55	·11	7
3·37	28·03	...	...	...	...	
2·89	10·79	...	...	...	...	
2·38	8·14	17,007	46·64	43	·12	8
2·44	5·68	...	...	...	...	
·91	9·71	...	...	...	...	
3·62	7·93	13,164	45·25	44	·15	9
4·03	10·14	...	...	...	...	
1·20	1·21	...	...	...	...	
1·55	21·43	16,949	45·61	100	·27	10
1·35	21·86	...	...	...	...	
3·30	20·44	...	...	...	...	
3·60	18·79	20,546	41·98	31	·06	11
3·91	21·57	...	...	...	...	
·87	6·04	...	...	...	...	

other agencies included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No. (1)	Divisions and Districts. (2)	Population of districts according to Census of 1921. (3)	Average population per square mile. (4)	Average number of vaccinators employed throughout the year. (5)	Total number of persons vaccinated. (6)		
					Males.	Females.	Total.
	IRRAWADDY DIVISION—*concld.*						
12	Henzada District ...	550,920	192	14	14,603	15,127	29,730
	Rural	512,412	...	11	13,395	13,894	27,289
	Urban	38,508	...	3	1,208	1,233	2,441
13	Myaungmya District ...	370,551	140	15	13,809	14,635	28,444
	Rural	349,709	...	12	12,850	13,735	26,585
	Urban	20,842	...	3	959	900	1,859
14	Ma-ubin District... ...	330,106	201	12	12,432	12,182	24,614
	Rural	305,938	...	9	11,048	11,426	22,474
	Urban	24,168	...	3	1,384	756	2,140
15	Pyapôn District	288,994	135	10	12,176	12,844	25,020
	Rural	272,111	...	8	10,934	12,059	22,993
	Urban	16,883	...	2	1,242	785	2,027
	TENASSERIM DIVISION.						
16	Salween District ...	50,379	19	4	6,394	3,066	9,460
17	Thatôn District ...	471,100	98	11	12,326	12,693	25,019
	Rural	448,841	...	10	11,821	12,293	24,114
	Urban	22,259	...	1	505	400	905
18	Amherst District... ...	417,910	59	11	19,907	18,803	38,710
	Rural	350,022	...	8	15,972	16,269	32,241
	Urban	67,888	...	3	3,935	2,534	6,469
19	Tavoy District	156,786	30	6	6,120	6,725	12,845
	Rural	129,306	...	4	5,453	5,962	11,415
	Urban	27,480	...	2	667	763	1,430
20	Mergui District	135,465	14	5	3,901	3,576	7,477
	Rural	117,057	...	4	3,002	2,829	5,831
	Urban	18,408	...	1	899	747	1,646
21	Toungoo District ...	381,883	62	13	14,063	13,921	27,984
	Rural	350,117	...	10	11,814	11,834	23,648
	Urban	31,766	...	3	2,249	2,087	4,336
	MAGWE DIVISION.						
22	Thayetmyo District ...	255,406	54	8	6,515	6,354	12,869
	Rural	233,419	...	6	4,911	5,209	10,120
	Urban	21,987	...	2	1,604	1,145	2,749
23	Minbu District	274,302	83	7	6,285	6,570	12,855
	Rural	262,065	...	5	6,001	6,341	12,342
	Urban	12,237	...	2	284	229	513

* Secondary

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
2,124	26,944	8,157	14,114	24,408	609	12
2,481	25,493	7,328	13,665	23,108	517	
814	1,451	829	449	1,300	92	
1,896	20,734	3,717	10,588	18,934	862	13
2,215	19,438	3,325	9,966	17,724	805	
620	1,296	392	622	1,210	57	
2,051	19,130	4,200	12,507	18,560	428	14
2,497	*18,168	3,632	12,200	17,645	389	
713	962	568	307	915	39	
2,502	*18,801	5,598	12,158	18,512	108	15
2,874	*17,579	5,099	11,615	17,327	93	
1,014	* 1,222	499	543	1,185	15	
2,365	5,781	181	1,049	4,201	1,373	16
2,274	17,126	3,753	7,929	13,969	1,497	17
2,411	16,439	3,326	7,765	13,364	1,497	
905	687	427	164	605	...	
3,513	17,290	4,262	7,897	16,178	616	18
4,030	15,638	2,829	7,847	14,681	598	
2,133	1,652	1,433	50	1,497	18	
2,141	*6,354	3,159	2,053	5,347	92	19
2,854	*5,288	2,297	1,981	4,410	92	
715	1,066	862	72	937	...	
1,495	5,509	902	1,565	3,378	470	20
1,458	4,672	483	1,490	2,849	427	
1,646	837	419	75	529	43	
2,153	17,321	2,170	8,426	16,432	617	21
2,365	15,795	1,746	7,679	14,985	585	
1,445	*1,526	424	747	1,447	32	
1,609	10,264	4,192	4,586	8,778	149	22
1,687	8,937	3,540	4,046	7,586	99	
1,375	1,327	652	540	1,192	50	
1,836	*12,897	4,257	7,446	11,775	352	23
2,468	*12,355	3,972	7,268	11,312	344	
257	*542	285	178	463	8	

operations included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	IRRAWADDY DIVISION—*concld.*						
12	Henzada District ...	2,786	242	642	92·68	11·29	44·74
	Rural	1,796	183	460	92·52	13·70	45·45
	Urban	990	59	182	95·66	7·30	35·37
13	Myaungmya District ...	7,710	2,088	1,605	95·28	34·20	56·73
	Rural	7,147	1,891	1,566	95·12	33·88	56·09
	Urban	563	197	39	97·66	37·60	67·51
14	Ma-ubin District	5,485	541	294	99·24	10·42	57·86
	Rural	4,307	314	207	99·25	7·66	58·10
	Urban	1,178	227	87	99·13	20·81	54·34
15	Pyapôn District	6,257	1,165	675	99·03	20·87	68·09
	Rural	5,436	1,049	442	99·09	21·01	67·51
	Urban	821	116	233	98·18	19·73	77·52
	TENASSERIM DIVISION.						
16	Salween District ...	3,679	784	1,211	95·30	31·77	98·95
17	Thatôn District ...	7,893	1,494	1,472	89·38	23·27	32·82
	Rural	7,675	1,427	1,383	89·44	22·68	32·95
	Urban	218	67	89	88·06	51·94	30·19
18	Amherst District ...	†21,420	4,247	2,228	97·03	22·13	48·87
	Rural	16,603	2,255	1,633	97·61	15·06	48·39
	Urban	†4,817	1,992	595	91·62	47·18	51·39
19	Tavoy District	6,823	3,359	517	85·39	53·27	55·53
	Rural	6,459	3,159	513	84·87	53·13	58·54
	Urban	364	200	4	87·90	55·56	41·38
20	Mergui District	1,968	412	214	67·04	23·49	27·98
	Rural	1,159	135	119	67·11	12·98	25·49
	Urban	809	277	95	66·62	38·80	43·79
21	Toungoo District ...	10,668	2,821	1,293	98·37	30·09	50·42
	Rural	7,853	1,613	1,188	98·52	24·20	43·67
	Urban	2,815	1,208	105	96·85	44·58	83·58
	MAGWE DIVISION.						
22	Thayetmyo District ...	2,605	1,682	323	86·78	73·71	40·95
	Rural	1,183	1,020	124	85·83	96·32	36·87
	Urban	1,422	662	199	93·34	54·13	84·32
23	Minbu District	172	67	4	93·86	39·88	43·17
	Rural	146	58	2	94·18	40·28	43·39
	Urban	26	9	2	86·70	37·50	38·57

† Work done by

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
2·26	23·04	28,223	51·23	60	·11	12
2·03	25·61	...	...	...	...	
6·34	18·38	...	...	...	...	
4·12	20·82	23,874	64·43	42	·11	13
4·14	21·91	...	...	...	...	
4·40	6·93	...	...	...	...	
2·24	5·36	21,801	66·04	64	·20	14
2·14	4·81	...	...	...	...	
4·05	7·39	...	...	...	...	
·57	10·79	18,826	65·14	62	·21	15
·53	8·13	...	...	...	...	
1·23	28·38	...	...	...	...	
23·75	32·92	3,591	71·27	...	...	16
8·74	18·65	19,276	40·92	72	·15	17
9·11	18·02	...	...	...	...	
...	40·83	...	...	...	...	
3·56	10·40	19,436	46·51	40	·10	18
3·82	9·84	...	...	...	...	
1·09	12·35	...	...	...	...	
1·45	7·58	6,811	43·44	1	·01	19
1·74	7·94	...	...	...	...	
...	1·10	...	...	...	...	
8·53	10·87	5,228	38·59	12	·09	20
9·14	10·27	...	...	...	...	
5·14	11·74	...	...	...	...	
3·56	12·12	14,368	37·62	35	·09	21
3·70	15·13	...	...	...	...	
2·10	3·73	...	...	...	...	
1·45	12·40	10,730	42·01	71	·28	22
1·11	10·48	...	...	...	...	
3·77	13·99	...	...	...	...	
2·73	2·33	11,773	42·92	149	·54	23
2·78	1·37	...	...	...	...	
1·48	7·69	...	...	...	...	

other agencies included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1921.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Males.	Females.	Total.
	MAGWE DIVISION—*concld.*						
24	Magwe District	423,252	115	15	22,179	20,703	42,882
	Rural	399,612	...	12	20,692	19,411	40,103
	Urban	23,640	...	3	1,487	1,292	2,779
25	Pakôkku District ...	465,771	75	9	10,210	10,267	20,477
	Rural	446,264	...	8	9,419	9,830	19,249
	Urban	19,507	...	1	791	437	1,228
26	Chin Hills District ...	110,079	14	5	3,447	2,901	6,348
27	Pakôkku Hill Tracts ...	20,043	6	1	818	281	1,099
	MANDALAY DIVISION.						
28	Mandalay District ...	356,621	166	11	9,602	9,715	19,317
	Rural	187,707	...	5	3,376	3,616	6,992
	Urban	168,914	...	6	6,226	6,099	12,325
29	Kyauksè District ...	142,677	111	5	3,035	3,419	6,454
	Rural	136,570	...	4	2,854	3,212	6,066
	Urban	6,107	...	1	181	207	388
30	Meiktila District	289,897	127	6	5,917	5,733	11,650
	Rural	281,029	...	5	4,982	5,309	10,291
	Urban	8,868	...	1	935	424	1,359
31	Myingyan District ...	442,008	161	9	8,656	8,477	17,133
	Rural	415,983	...	7	8,367	8,207	16,574
	Urban	26,025	...	2	289	270	559
32	Yamèthin District ...	323,189	77	7	9,256	9,825	19,081
	Rural	294,730	...	5	7,613	8,533	16,146
	Urban	28,459	...	2	1,643	1,292	2,935
	SAGAING DIVISION.						
33	Bhamo District	112,960	16	4	2,475	2,755	5,230
	Rural	105,219	...	3	2,210	2,617	4,827
	Urban	7,741	...	1	265	138	403
34	Myitkyina District ...	146,074	13	3	1,813	1,152	2,965
	Rural	141,118	...	3	1,622	1,097	2,719
	Urban	4,956	...	...	191	55	246
35	Shwebo District ...	391,284	68	10	13,754	15,461	29,215
	Rural	377,937	...	9	13,415	15,190	28,605
	Urban	13,347	...	1	339	271	610

* Secondary
† Work done by

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
2,859	*17,662	6,503	7,004	16,028	298	24
3,342	*16,758	5,942	6,715	15,173	282	
926	904	561	289	855	16	
2,275	14,454	4,707	6,078	11,226	595	25
2,406	13,924	4,416	5,979	10,809	540	
1,228	530	291	99	417	55	
1,270	*5,634	113	2,025	3,912	825	26
1,099	760	2	296	711	6	27
1,756	*13,493	7,018	4,317	11,792	174	28
1,398	*5,321	1,538	2,986	4,751	156	
2,054	*8,172	5,480	1,331	7,041	18	
1,291	4,801	2,442	1,944	4,430	332	29
1,517	*4,564	2,251	1,914	4,204	322	
388	237	191	30	226	10	
1,942	8,691	1,680	4,557	6,528	1,191	30
2,058	8,240	1,412	4,449	6,114	1,166	
1,359	451	268	108	414	25	
1,904	12,616	5,674	4,197	10,362	1,341	31
2,368	12,157	5,291	4,138	9,920	1,329	
280	459	383	59	442	12	
2,726	12,921	4,313	4,806	10,346	1,082	32
3,229	11,273	3,516	4,391	9,014	908	
1,468	1,648	797	415	1,332	174	
1,308	4,346	966	1,515	3,567	452	33
1,609	4,107	784	1,515	3,385	452	
403	239	182	...	182	...	
984	†2,045	138	822	1,618	380	34
902	†1,933	126	791	1,520	376	
...	112	12	31	98	4	
2,922	18,099	3,871	8,171	13,215	2,502	35
3,178	17,686	3,539	8,128	12,824	2,490	
610	413	332	43	391	12	

operations included.
other agencies included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	MAGWE DIVISION—*concld.*						
24	Magwe District	25,359	6,958	4,601	92·31	33·52	54·31
	Rural	23,484	5,934	4,303	92·09	30·94	52·82
	Urban	1,875	1,024	298	96·28	64·93	79·48
25	Pakôkku District ...	6,023	330	400	81·00	5·87	24·81
	Rural	5,325	311	219	80·76	6·09	24·92
	Urban	698	19	181	87·79	3·68	22·35
26	Chin Hills District ...	719	324	159	81·35	57·86	38·48
27	Pakôkku Hill Tracts ...	339	124	39	94·30	41·33	41·66
	MANDALAY DIVISION.						
28	Mandalay District ...	6,518	2,906	122	88·54	45·43	41·21
	Rural	1,741	1,155	119	91·98	71·21	31·46
	Urban	4,777	1,751	3	86·35	36·68	52·05
29	Kyauksè District ...	1,683	691	300	99·13	49·96	35·89
	Rural	*1,532	649	288	99·10	52·17	35·53
	Urban	151	42	12	99·56	30·22	43·88
30	Meiktila District ...	2,959	829	824	87·04	38·83	25·38
	Rural	2,051	473	651	86·43	33·79	23·44
	Urban	908	356	173	97·18	48·44	86·83
31	Myingyan District ...	4,517	911	692	91·90	23·82	25·50
	Rural	4,417	895	658	91·61	23·81	26·00
	Urban	100	16	34	98·88	24·24	17·60
32	Yamèthin District ...	6,160	1,466	1,173	87·39	29·40	36·55
	Rural	4,873	1,045	743	86·97	25·30	34·13
	Urban	1,287	421	430	90·37	49·12	61·60
	SAGAING DIVISION.						
33	Bhamo District	884	528	67	91·60	64·63	36·25
	Rural	720	426	67	92·61	65·24	36·22
	Urban	164	102	...	76·15	62·20	36·69
34	Myitkyina District ...	†920	530	175	97·18	71·14	14·70
	Rural	†786	407	168	97·62	65·86	13·66
	Urban	134	123	7	90·74	96·85	44·59
35	Shwebo District ...	11,116	5,032	2,059	84·73	55·56	46·63
	Rural	10,919	4,891	2,036	84·93	55·06	46·87
	Urban	197	141	23	97·51	81·03	39·86

* Secondary
† Work done by

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
1·69	18·14	18,460	43·61	162	·38	24
1·68	18·32	...	...	...	...	
1·77	15·89	...	...	...	...	
4·12	6·64	14,778	31·46	96	·21	25
3·88	4·11	...	...	...	...	
10·38	25·93	...	...	...	...	
14·64	22·11	2,831	25·72	...	...	26
·79	11·50	...	...	...	...	27
1·29	1·87	19,091	53·53	141	·40	28
2·93	6·84	...	...	...	...	
·22	·06	...	...	...	...	
6·92	17·83	7,496	52·54	21	·15	29
7·06	18·80	...	...	...	...	
4·22	7·95	...	...	...	...	
13·70	27·85	8,659	29·87	70	·24	30
14·15	31·74	...	...	...	...	
5·54	19·05	...	...	...	...	
10·63	19·68	17,226	38·97	331	·75	31
10·93	14·90	...	...	...	...	
2·61	34·00	...	...	...	...	
9·91	19·04	13,820	42·76	46	·14	32
8·05	15·25	...	...	...	...	
10·56	33·41	...	...	...	...	
10·40	7·58	4,374	38·72	...	...	33
11·01	9·31	...	...	...	...	
...	...	...	...	...	...	
18·58	19·02	2,048	14·42	...	...	34
19·45	21·37	...	...	...	...	
3·57	5·22	...	...	...	...	
13·82	18·52	16,126	41·21	55	14	35
14·08	18·65	...	...	...	...	
2·91	11·68	...	...	...	...	

operations included.
other agencies included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1921.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
	SAGAING DIVISION—*concld.*						
36	Sagaing District	326,908	180	8	8,863	11,437	**20,300**
	Rural	315,050	...	6	8,473	11,053	**19,526**
	Urban	11,858	...	2	390	384	**774**
37	Katha District	233,706	30	6	7,104	6,889	**13,993**
38	Upper Chindwin District ...	179,245	11	6	3,307	3,206	**6,513**
39	Lower Chindwin District ...	342,880	99	8	8,535	9,915	**18,450**
	Rural	333,655	...	7	8,253	9,705	**17,958**
	Urban	9,225	...	1	282	210	**492**
	FEDERATED SHAN STATES.						
40	Northern Shan States ...	559,223	28	19	11,853	12,020	**23,873**
	Rural	555,775	...	19	11,567	11,898	**23,465**
	Urban	3,448	...	...	286	122	**408**
41	Southern Shan States ...	911,468	23	21	22,997	19,221	**42,218**
	Total for 1927-28 ...	13,169,099	56	384	468,978	399,536	**868,514**
	Rural	11,912,411	...	293	344,506	350,772	**695,278**
	Urban	1,256,688	...	91	124,472	48,764	**173,236**

* Secondary

DEPARTMENT.

Province of Burma during the year 1927-28—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
2,538	13,438	5,141	5,551	10,804	753	36
3,254	12,860	4,858	5,313	10,280	752	
387	578	283	238	524	1	
2,332	*11,984	2,100	5,738	11,041	254	37
1,086	4,806	676	2,477	4,382	21	38
2,306	12,190	5,626	4,071	10,309	51	39
2,565	*11,803	5,378	3,963	9,945	51	
492	387	248	108	364	...	
1,256	21,882	3,079	12,259	20,943	462	40
1,235	21,684	3,039	12,193	20,827	458	
...	198	40	66	116	4	
2,010	38,152	1,512	11,012	31,894	2,700	41
2,253	550,154	140,728	252,996	482,304	26,807	
2,373	500,743	111,351	240,811	438,471	24,324	
1,866	49,411	29,377	12,185	43,833	2,483	

operations included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	SAGAING DIVISION—*concld.*						
36	Sagaing District	6,862	2,144	1,450	85·17	39·62	39·61
	Rural	6,666	2,049	1,424	84·90	39·09	39·13
	Urban	196	95	26	90·81	55·88	52·20
37	Katha District	2,025	379	184	94·13	20·59	48·86
38	Upper Chindwin District ...	1,707	1,096	74	91·58	67·12	30·56
39	Lower Chindwin District ...	6,674	4,173	330	84·92	65·78	42·24
	Rural	6,569	4,106	329	84·62	65·80	42·11
	Urban	105	67	1	94·06	64·42	46·72
	FEDERATED SHAN STATES.						
40	Northern Shan States ...	1,991	1,525	30	97·77	77·77	40·18
	Rural	1,781	1,451	23	98·12	82·54	40·08
	Urban	210	74	7	59·79	36·45	55·10
41	Southern Shan States ...	4,066	1,582	51	89·96	39·40	36·73
	Total for 1927-28 ...	320,248	102,917	62,187	92·16	39·88	44·44
	Rural	195,723	58,840	29,093	92·03	35·31	41·66
	Urban	124,525	44,077	33,094	93·40	48·21	69·95

DEPARTMENT.

Province of Burma during the year 1927-28—concld.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
5·60	21·13	22,025	67·37	122	·37	36
5·85	21·36	...	...	...	...	
·17	13·27	...	...	...	...	
2·12	9·09	10,678	44·92	...	...	37
·44	4·34	11,635	64·91	...	...	38
·42	4·94	15,860	46·25	53	·16	39
·43	5·01	...	...	...	...	
...	·95	...	...	...	...	
2·11	1·51	20,477	36·62	...	...	40
2·11	1·29	...	...	...	...	
2·02	3·33	...	...	...	...	
7·08	1·25	26,739	29·34	...	...	41
4·87	19·42	585,441	44·46	2,595	·24	
4·86	14·86	...	...	...	...	
5·03	26·58	...	...	...	...	

SUM

—	Total number of persons vaccinated		Total number of operations performed.		Percentage of successful cases in which results were known.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
By Special Staff (Statement I) ...	548,028	317,043	549,901	317,058	92·16	39·81
By Dispensary Staff (Statement III)	6,368	2,862	6,368	2,862	93·66	60·08
By other agencies, if any ...	253	3,190	253	3,190	95·02	50·67
Total ...	554,649	323,095	556,522	323,110	92·16	40·01

MARY. (Paragraph 13).

Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.		Ratio of successful vaccination per 1,000 population.	Total cost of Department.	Average cost of each successful case.
Vaccinators employed. (8)	Persons vaccinated by each vaccinator. (9)	Under one year. (10)	One year and under six years. (11)	(12)	(13)	(14)
					Rs. A. P.	Rs. A. P.
384	2,253	140,551	252,952	44·36	4,03,228 12 3	0 11 1
...	...	429	1,143	·24	...	...
...	...	177	44	·08	...	...
384	2,253	141,157	254,139	44·68	...	...

A.—VACCINATION

STATEMENT No. II—*Showing the cost of the Department in the*

No.	Divisions and Districts.	District Health Officers.	Ex		
			Pay.	Inspector of vaccination.	Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
	ARAKAN DIVISION.				
1	Akyab	...	...	1	960 0 0
2	Hill District of Arakan ...	...	...	...	...
3	Kyaukpyu	...	...	1	921 1 0
4	Sandoway	...	...	1	954 10 0
	PEGU DIVISION.				
5	Rangoon	...	...	1	...
6	Pegu	...	...	2	2,160 0 0
7	Tharrawaddy	...	...	6	1,712 6 9
8	Hanthawaddy	...	...	5	4,093 12 0
9	Insein	...	...	4	4,913 0 0
10	Prome	...	...	2	...
	IRRAWADDY DIVISION.				
11	Bassein	...	...	5	2,387 6 0
12	Henzada	...	...	4	1,924 15 0
13	Myaungmya	...	...	5	2,257 7 0
14	Ma-ubin	...	...	4	2,850 7 0
15	Pyapôn	...	...	4	2,131 13 0
	TENASSERIM DIVISION.				
16	Salween	...	...	1	805 0 0
17	Thatôn	...	...	2	2,238 12 0
18	Amherst	...	...	4	3,325 12 0
19	Tavoy	...	...	1	1,404 12 0
20	Mergui	...	...	1	1,230 0 0
21	Toungoo	...	...	4	2,101 11 0
	MAGWE DIVISION.				
22	Thayetmyo	...	...	2	1,190 3 0
23	Minbu	...	...	1	...
24	Magwe	...	...	5	1,738 15 0
25	Pakôkku	...	...	1	1,451 11 0
26	Chin Hills	...	...	1	...
27	Pakkôku Hill Tracts ...	...	...	...	...

DEPARTMENT.

Province of Burma during the year 1927-28. (Paragraphs 1 and 16).

penditure.

Vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	Total pay of establishment.	Travelling allowance.	No.
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(1)
	Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	
13	5,785 2 6	...	...	...	...	6,745 2 6	3,358 15 0	1
3	1,206 5 0	...	...	...	...	1,206 5 0	461 15 0	2
6	2,659 7 0	...	...	...	...	3,580 8 0	1,971 7 0	3
4	1,287 1 0	...	...	...	...	2,241 11 0	1,109 8 0	4
22	4,877 13 0	...	...	2	491 14 0	5,369 11 0	289 12 0	5
8	5,290 8 0	...	...	...	...	7,450 8 0	4,710 13 0	6
13	5,656 7 2	...	...	1	27 15 0	7,396 12 11	3,961 13 9	7
9	5,465 9 0	...	...	...	...	9,559 5 0	6,245 14 0	8
8	4,667 7 0	...	...	...	...	9,580 7 0	5,349 8 0	9
13	6,254 14 0	...	...	...	...	6,254 14 0	2,845 9 9	10
16	5,474 14 8	...	...	...	...	7,862 4 8	4,861 1 0	11
14	7,272 8 0	...	...	...	...	9,197 7 0	5,045 8 0	12
15	6,378 1 0	...	...	...	...	8,635 8 0	5,035 1 0	13
12	4,665 5 0	...	...	...	...	7,515 12 0	3,759 12 0	14
10	4,551 5 0	...	...	...	...	6,683 2 0	4,833 3 6	15
4	984 0 0	...	...	...	...	1,789 0 0	1,360 4 0	16
11	6,016 7 0	...	...	...	...	8,255 3 0	4,865 10 6	17
11	5,575 3 7	...	...	...	...	8,900 15 7	3,984 10 6	18
6	2,576 15 0	...	...	...	...	3,981 11 0	3,150 9 0	19
5	2,632 3 0	...	...	...	...	3,862 3 0	1,671 8 0	20
13	5,588 7 0	...	...	...	...	7,690 2 0	3,695 3 0	21
8	3,646 1 0	...	...	...	...	4,836 4 0	2,060 15 0	22
7	2,890 0 0	...	...	...	...	2,890 0 0	1,025 5 0	23
15	5,947 11 0	...	...	...	...	7,686 10 0	3,529 3 6	24
9	4,297 15 0	...	...	...	...	5,749 10 0	3,759 3 0	25
5	2,155 15 0	...	...	...	...	2,155 15 0	886 0 0	26
1	533 4 0	...	...	1	255 12 0	789 0 0	412 0 0	27

A.—VACCINATION

STATEMENT No. II—*Showing the cost of the Department*

No.	Divisions and Districts.	District Health Officers.	Ex Pay.	Inspector of vaccination.	Ex Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
	MANDALAY DIVISION.				
28	Mandalay	...	...	1	1,265 0 0
29	Kyauksè	...	...	1	960 0 0
30	Meiktila	...	...	1	...
31	Myingyan	...	...	3	520 0 0
32	Yamèthin	...	...	1	1,350 0 0
	SAGAING DIVISION.				
33	Bhamo	...	...	...	...
34	Myitkyina	...	...	...	...
35	Shwebo	...	...	3	...
36	Sagaing	...	...	1	1,140 0 0
37	Katha	...	...	2	2,904 0 0
38	Upper Chindwin	...	...	1	1,736 11 0
39	Lower Chindwin	...	...	1	1,620 8 0
	FEDERATED SHAN STATES.				
40	Northern Shan States ...	...	...	...	...
41	Southern Shan States ...	...	...	2	2,700 0 0
	OTHERS.				
42	Meiktila Vaccine Depôt ...	2	10,974 1 0	...	...
43	Office of Director of Public Health, Burma.	...	...	...	...
	TOTAL ...	2	10,974 1 0	(*b*) 85	56,949 12 9

DEPARTMENT.

in the Province of Burma during the year 1927-28—contd.

penditure.

Vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	Total pay of establishment.	Travelling allowance.	No
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(1)
	Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	
11	7,069 1 0	...	...	...	...	8,334 1 0	1,739 1 0	28
5	2,192 7 0	...	...	...	...	3,152 7 0	1,404 5 0	29
6	2,247 0 0	...	...	...	...	2,247 0 0	923 15 0	30
9	3,957 5 0	...	...	...	...	4,477 5 0	1,559 11 0	31
7	3,682 13 0	...	...	...	...	5,032 13 0	2,785 5 0	32
4	1,902 9 0	...	...	...	...	1,902 9 0	627 6 0	33
3	1,731 8 0	...	...	...	...	1,731 8 0	486 13 0	34
10	5,646 8 0	...	...	...	...	5,646 8 0	2,776 10 6	35
8	3,177 5 0	...	...	...	...	4,317 5 0	1,948 8 0	36
6	3,232 0 0	...	...	...	...	6,136 0 0	2,330 13 0	37
6	3,727 1 0	...	...	...	...	5,463 12 0	2,656 14 0	38
8	3,331 5 0	...	...	1	177 0 0	5,128 13 0	2,215 8 0	39
19	7,775 8 0	...	...	1	136 11 0	7,912 3 0	3,906 0 0	40
21	9,173 4 11	1	959 0 0	7	1,989 2 0	14,821 6 11	6,211 1 0	41
...	...	2	1,517 14 0	11	2,858 13 0	15,350 12 0	815 2 0	42
...	...	...	...	...	...	...	...	43
384	1,73,182 7 10	3	2,476 14 0	24	5,937 3 0	2,49,520 6 7	1,16,627 5 0	

A.—VACCINATION

STATEMENT No. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure. Contingencies.	Total cost.	Deputy Commissioner's Local Funds.	Provincial Funds.
(1)	(2)	(15)	(16)	(17)	(18)
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
	ARAKAN DIVISION.				
1	Akyab	324 4 0	10,428 5 6	193 14 0	...
2	Hill District of Arakan ...	12 0 0	1,680 4 0	1,680 4 0	...
3	Kyaukpyu	...	5,551 15 0	5,335 15 0	...
4	Sandoway	5 10 0	3,356 13 0	2,979 3 0	...
	PEGU DIVISION.				
5	Rangoon	10,264 7 0	15,923 14 0	...	840 0 0
6	Pegu	350 0 0	12,511 5 0	...	...
7	Tharrawaddy	15 8 0	11,374 2 8	...	...
8	Hanthawaddy	205 8 0	16,010 11 0	...	...
9	Insein	150 6 0	15,080 5 0	...	...
10	Prome	...	9,100 7 9	...	...
	IRRAWADDY DIVISION.				
11	Bassein	227 10 4	12,951 0 0	2,064 3 0	...
12	Henzada	381 12 0	14,624 11 0	...	...
13	Myaungmya	209 8 6	13,880 1 6	...	...
14	Ma-ubin	...	11,275 8 0	...	...
15	Pyapôn	...	11,516 5 6	...	...
	TENASSERIM DIVISION.				
16	Salween	345 15 0	3,495 3 0	3,495 3 0	...
17	Thatôn	...	13,120 13 6	...	...
18	Amherst	25 0 0	12,910 10 1	2,150 9 7	...
19	Tavoy	136 0 0	7,268 4 0	...	...
20	Mergui	21 0 0	5,554 11 0	637 8 0	...
21	Toungoo	117 2 0	11,502 7 0	...	...
	MAGWE DIVISION.				
22	Thayetmyo	105 13 0	7,003 0 0	...	...
23	Minbu	22 15 0	3,938 4 0	1,297 0 0	...
24	Magwe	...	11,215 13 6	...	...
25	Pakôkku	255 12 0	9,764 9 0	2,794 7 0	...
26	Chin Hills	...	3,041 15 0	...	3,041 15 0
27	Pakôkku Hill Tracts ...	5 10 0	1,206 10 0	...	1,206 10 0

* The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1927-28—contd.

Paid from District Council Funds. (19)	Municipalities. (20)	Federated Funds. (21)	Total. (22)	Number of all successful vaccinations and re-vaccinations by special staff only. (23)	Average cost of each successful case.* (24)	No. (1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
9,207 5 6	1,027 2 0	...	10,428 5 6	29,677	0 5 7	1
...	...	...	1,680 4 0	968	1 11 9	2
...	216 0 0	...	5,551 15 0	7,943	0 11 2	3
...	377 10 0	...	3,356 13 0	3,590	0 15 0	4
...	15,083 14 0	...	15,923 14 0	37,992	0 6 8	5
11,008 13 0	1,502 8 0	...	12,511 5 0	18,507	0 10 10	6
8,578 2 8	2,796 0 0	...	11,374 2 8	21,190	0 8 7	7
15,254 4 0	756 7 0	...	16,010 11 0	16,079	0 15 11	8
13,287 12 0	1,792 9 0	...	15,080 5 0	10,362	1 7 3	9
6,998 7 9	2,102 0 0	...	9,100 7 9	24,276	0 6 0	10
9,814 1 0	1,072 12 0	...	12,951 0 0	19,564	0 10 7	11
13,364 12 0	1,259 15 0	...	14,624 11 0	24,650	0 9 6	12
12,317 1 6	1,563 0 0	...	13,880 1 6	21,022	0 10 7	13
9,981 0 0	1,294 8 0	...	11,275 8 0	19,101	0 9 5	14
10,330 5 6	1,186 0 0	...	11,516 5 6	19,677	0 9 4	15
...	...	...	3,495 3 0	4,985	0 11 3	16
12,281 15 6	838 14 0	...	13,120 13 6	15,463	0 13 7	17
5,947 3 6	4,812 13 0	...	12,910 10 1	20,398	0 10 2	18
6,107 7 0	1,160 13 0	...	7,268 4 0	8,706	0 13 4	19
4,188 3 0	729 0 0	...	5,554 11 0	3,790	1 7 5	20
9,847 13 0	1,654 10 0	...	11,502 7 0	19,253	0 9 7	21
6,125 0 0	878 0 0	...	7,003 0 0	10,460	0 10 8	22
1,969 4 0	672 0 0	...	3,938 4 0	11,842	0 5 4	23
9,121 13 6	2,094 0 0	...	11,215 13 6	22,986	0 7 10	24
6,215 13 0	754 5 0	...	9,764 9 0	11,556	0 13 6	25
...	...	...	3,041 15 0	4,236	0 11 6	26
...	...	...	12,06 10 0	835	1 7 1	27

vaccinations and re-vaccinations performed by special staff only (*vide* column 23).

A.—VACCINATION

STATEMENT No. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure. Contingencies.	Total cost.	Deputy Commissioner's Local Funds.	Provincial Funds.
(1)	(2)	(15)	(16)	(17)	(18)
	MANDALAY DIVISION.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
28	Mandalay	182 9 4	10,255 11 4	...	636 0 0
29	Kyauksè	11 0 0	4,567 12 0	...	...
30	Meiktila	35 6 0	3,206 5 0	...	...
31	Myingyan	...	6,037 0 0	...	...
32	Yamèthin	155 3 0	7,973 5 0	...	...
	SAGAING DIVISION.				
33	Bhamo	...	2,529 15 0	2,105 4 0	...
34	Myitkyina	...	2,218 5 0	2,218 5 0	...
35	Shwebo	...	8,428 2 6	...	...
36	Sagaing	...	6,265 13 0	...	...
37	Katha	...	8,466 13 0	8,466 13 0	...
38	Upper Chindwin	80 8 0	8,201 2 0	8,201 2 0	...
39	Lower Chindwin	81 14 0	7,426 3 0	...	
	FEDERATED SHAN STATES.				
40	Northern Shan States ...	251 1 0	12,069 4 0	...	...
41	Southern Shan States ...	130 14 0	21,163 5 11	...	...
	OTHERS.				
42	Meiktila Vaccine Depôt ...	21,886 13 6	38,052 11 6	...	38,052 11 6
43	Office of Director of Public Health, Burma.	1,083 15 0	1,083 15 0	...	1,083 15 0
	TOTAL ...	37,081 0 8	4,03,228 12 3	43,619 10 7	44,861 3 6

* The average cost in column 24 is calculated on the total number of successful

(*a*) No share of pay of 2 Female Registrar-Vaccinators and 12 Assistant Registrar-Vaccinators employed in Rangoon Cantonment

(*b*) This includes 28 Sub-Assistant Surgeons, 2 Private Medical Practitioners who are receiving vaccination 43 Inspectors of Vaccination, 1 Head Vaccinator

DEPARTMENT.

in the Province of Burma during the year 1927-28—concld.

Paid from				Number of all successful vaccinations and re-vaccinations by special staff only.	Average cost of each successful case.*	No.
District Council Funds. (19)	Municipalities. (20)	Federated Funds. (21)	Total. (22)	(23)	(24)	(1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
5,244 6 0	4,375 5 4	...	10,255 11 4	14,698	0 11 2	28
4,260 5 0	307 7 0	...	4,567 12 0	5,121	0 14 3	29
2,751 5 0	455 0 0	...	3,206 5 0	7,357	0 7 0	30
4,833 13 0	1,203 3 0	...	6,037 0 0	11,273	0 8 7	31
6,589 5 0	1,384 0 0	...	7,973 5 0	11,812	0 10 10	32
...	424 11 0	...	2,529 15 0	4,095	0 9 11	33
...	...	...	2,218 5 0	2,138	1 0 7	34
7,823 2 6	600 0 0	...	8,423 2 6	18,247	0 7 5	35
5,809 13 0	456 0 0	...	6,265 13 0	12,948	0 7 9	36
...	...	...	8,466 13 0	11,420	0 11 10	37
...	...	...	8,201 2 0	5,478	1 7 11	38
7,061 8 0	364 11 0	...	7,426 3 0	14,482	0 8 2	39
...	...	12,069 4 0	12,069 4 0	22,468	0 8 7	40
...	...	21,163 5 11	21,163 5 11	33,476	0 10 1	41
...	...	...	38,052 11 6	...	...	42
...	...	...	1,083 15 0	...	...	43
2,26,320 2 11	55,195 1 4	33,232 9 11	4,03,228 12 3	5,84,121	0 11 1	

vaccinations and re-vaccinations performed by special staff only (*vide* column 23).
of Rangoon Corporation have been included in the cost. Out of 13 only 1 Vaccinator
was paid by Government.
allowance, or who have been appointed as whole-time officers for supervising vaccination and vital statistics work,
and 11 Public Health Inspectors.

B.—DISPENSARY

STATEMENT No. III—*Showing Dispensary Vaccination*

No.	Divisions and Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary		
						Total.	Success	
							Under one year.	One and under six years.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	ARAKAN DIVISION.							
1	Akyab ...	...	...	...	...	...	...	...
2	Hill District of Arakan.	...	...	262	...	24	...	15
3	Kyaukpyu ...	...	...	20	...	...	...	...
4	Sandoway ...	...	...	...	...	...	...	...
	PEGU DIVISION.							
5	Rangoon ...	...	...	...	...	...	...	...
6	Pegu ...	...	...	...	...	...	...	...
7	Tharrawaddy ...	...	...	212	...	42	8	26
8	Hanthawaddy ...	...	...	...	...	...	...	...
9	Insein ...	...	...	...	...	...	...	...
10	Prome ...	...	...	...	...	...	...	...
	IRRAWADDY DIVISION.							
11	Bassein ...	...	...	592	...	53	...	...
12	Henzada ...	...	...	9	...	4	...	...
13	Myaungmya ...	...	...	337	...	309	67	207
14	Ma-ubin ...	...	...	53	...	...	...	...
15	Pyapôn ...	...	...	...	...	...	...	...
	TENASSERIM DIVISION.							
16	Salween ...	...	...	...	...	...	...	...
17	Thatôn ...	...	...	...	...	...	...	...
18	Amherst ...	...	...	118	...	96	64	16
19	Tavoy ...	...	...	...	...	...	...	...
20	Mergui ...	...	...	...	...	...	...	...
21	Toungoo ...	...	..	...	...	...	...	...

VACCINATION.

in the Province of Burma for the year 1927-28—(Paragraph 11).

Vaccination.		Re-vaccination.			Percentage of successful cases in which the results were known.		Percentage of unknown cases to total cases.		
ful.									No.
Total of all ages.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(1)
...	...	...	...	...	...	...	...	...	1
24	...	238	153	...	100·00	64·29	...	...	2
...	...	20	2	5	...	13·33	...	25·00	3
...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	6
42	...	170	20	150	100·00	100·00	...	88·24	7
...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	9
...	...	...	...	...	...	...	...	...	10
...	53	539	...	539	...	...	100·00	100·00	11
3	1	5	...	5	100·00	...	25·00	100·00	12
288	20	28	17	9	99·65	89·47	6·47	32·14	13
...	...	53	1	48	...	20·00	...	90·57	14
...	...	...	...	..	...	...	...	...	15
...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	17
89	5	22	5	1	97·80	23·81	5·21	4·55	18
...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	21

B.—DISPENSARY

STATEMENT No. III—*Showing Dispensary Vaccination*

No.	Divisions and Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary		
						Total.	Success	
							Under one year.	One and under six years.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	MAGWE DIVISION.							
22	Thayetmyo ...	...	...	...	...	...	...	...
23	Minbu ...	...	...	...	...	...	...	
24	Magwe ...	...	...	18	...	4	...	...
25	Pakôkku ...	...	...	...	...	...	...	...
26	Chin Hills ...	...	...	...	...	...	...	...
27	Pakôkku Hill Tracts	...	...	54	...	5	...	...
	MANDALAY DIVISION.							
28	Mandalay ...	...	...	451	...	214	104	63
29	Kyauksè ...	...	...	108	...	25	8	7
30	Meiktila ...	...	...	4	...	4	...	1
31	Myingyan ...	...	...	...	...	...	...	...
32	Yamèthin ...	...	...	...	...	...	...	...
	SAGAING DIVISION.							
33	Bhamo ...	...	...	349	...	346	2	25
34	Myitkyina ...	...	...	4,982	...	4,387	40	250
35	Shwebo ...	...	...	...	...	...	...	...
36	Sagaing ...	...	...	...	...	...	...	...
37	Katha ...	...	...	...	...	...	...	...
38	Upper Chindwin ...	...	...	462	...	79	15	31
39	Lower Chindwin ...	...	...	...	...	...	...	...
	FEDERATED SHAN STATES.							
40	Northern Shan States	...	...	840	...	727	109	475
41	Southern Shan States	...	...	359	...	49	12	27
	Total ...	...	...	9,230	...	6,368	429	1,143

VACCINATION.

in the Province of Burma for the year 1927-28—concld

Vaccination.		Re-vaccination.			Percentage of successful cases in which the results were known.		Percentage of unknown cases to total cases.		No.
ful.									
Total of all ages.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(1)
...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	23
4	...	14	...	...	100·00	...	...	...	24
...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	26
...	...	49	1	...	...	2·04	...	...	27
167	28	237	82	11	89·78	36·28	13·08	4·64	28
18	...	83	18	...	72·00	21·69	...	...	29
1	3	...	...	...	100·00	...	75·00	...	30
...	...	...	...	...	...	...	...	...	31
...	...	...	...	...	...	...	...	...	32
27	319	3	...	3	100·00	...	92·20	100·00	33
672	3,620	595	132	337	87·61	51·16	82·52	56·64	34
...	...	...	...	...	...	...	...	...	35
...	...	...	...	...	...	...	...	...	36
...	...	...	...	...	...	...	...	...	37
77	...	383	166	124	97·47	64·09	...	32·38	38
...	...	...	...	...	...	...	...	...	39
697	16	113	64	22	98·03	70·32	2·20	19·47	40
48	...	310	299	10	97·95	99·67	...	3·23	41
2,157	4,065	2,862	960	1,264	93·66	60·08	63·83	44·16	

COMPARATIVE STATEMENT No. IV—*Showing the number of persons vaccinated in the Province of Burma in*

Establishments.	Persons prima									
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
	1918-19.		1919-20.		1920-21.		1921-22.		1922-23.	
(1)	(2)		(3)		(4)		(5)		(6)	
Government.	146,541	138,337	179,204	162,448	165,491	152,910	174,549	160,011	196,950	180,625
Municipal	37,290	35,269	38,604	35,973	35,519	33,224	40,478	38,460	41,884	39,932
Local Funds.	231,214	216,462	257,218	239,580	272,949	256,940	262,388	247,532	270,396	256,235
Federated States.	7,854	7,349	9,177	5,045	7,280	5,155	10,234	8,695	10,643	10,559
Dispensary	2,063	1,764	7,220	4,781	2,016	1,565	3,601	3,068	2,883	2,178
Other Agencies	304	303	398	371	267	217	3,589	3,285	1,007	857
ARMY.										
Europeans	24	23	28	24	58	46	11	9	123	95
Natives	482	431	67	27	1,342	463	9	9	888	791
Total	425,772	399,938	491,916	448,249	484,922	450,520	494,859	461,069	524,774	491,272

primarily vaccinated and the number of those persons who were successfully each of the undermentioned official years.

rily vaccinated.										
Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Establishments.
1923-24. (7)		1924-25. (8)		1925-26. (9)		1926-27. (10)		1927-28. (11)		(12)
180,459	168,357	6,806	4,997	5,673	3,850	5,141	3,745	7,770	5,922	Government.
41,977	39,974	49,378	47,231	45,781	43,895	45,208	41,841	47,479	42,732	Municipal.
274,439	261,999	424,954	402,000	436,679	411,970	419,711	387,665	432,745	380,584	Local Funds.
45,671	43,552	48,476	44,673	67,872	64,245	39,998	38,864	60,034	52,837	Federated States.
4,534	3,673	6,116	5,175	3,759	2,789	3,574	1,890	6,368	2,157	Dispensary.
974	695	537	523	287	260	280	253	253	229	Other Agencies.
										ARMY.
15	13	34	32	32	27	22	20	55	48	Europeans.
281	207	426	419	738	707	293	274	254	243	Natives.
548,350	518,470	536,727	505,050	560,821	527,743	514,227	474,552	554,958	484,752	Total.

STATEMENT No. V—*Showing particulars of Vaccination verified*

No.	Districts.	Total number of persons vaccinated.		Total number inspected			
				By Assistant Director of Public Health or Civil Surgeons		By Inspectors of Vaccination or other Inspecting Officers.	
		Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Primary.	Re vaccinations.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Akyab	20,493	25,858	1,798	3,843	9,362	13,308
2	Hill District of Arakan ...	726	871	44	197	139	150
3	Kyaukpyu	8,512	1,669	2,819	263	3,510	833
4	Sandoway	4,300	1,051	729	31	2,688	525
5	Rangoon	11,315	82,992	598	2,951	9,299	53,499
6	Pegu	17,117	11,980	2,251	2,591	12,828	6,579
7	Tharrawaddy	19,542	7,448	511	98	15,014	3,160
8	Hanthawaddy	16,795	7,506	391	385	9,331	2,288
9	Insein	11,537	4,692	328	53	6,890	1,853
10	Prome	23,864	3,910	1,699	63	11,970	485
11	Bassein	19,947	5,250	514	75	12,136	2,496
12	Henzada	26,948	2,791	600	...	14,099	1,035
13	Myaungmya	21,043	7,738	503	34	10,795	2,954
14	Ma-ubin	19,129	5,538	386	116	16,258	3,995
15	Pyapôn	18,763	6,257	3,409	1,352	15,453	3,788
16	Salween	5,781	3,679	127	74	1,742	853
17	Thatôn	17,126	7,893	2,071	381	7,674	2,914
18	Amherst	17,386	21,442	2,465	2,743	12,214	8,885
19	Tavoy	6,022	6,823	3,984	2,757	4,533	4,618
20	Mergui	5,509	1,968	783	285	3,507	1,016
21	Toungoo	17,316	10,668	937	46	9,620	5,788
22	Thayetmyo	10,264	2,605	...	...	3,566	1,885
23	Minbu	12,683	172	264	...	2,411	6
24	Magwe	17,527	25,373	218	951	6,958	5,322
25	Pakôkku	14,454	6,023	730	134	5,523	2,084
26	Chin Hills	5,629	719	1,875	60	1,728	284
27	Pakôkku Hill Tracts ...	765	388	...	...	...	...
28	Mandalay	13,013	6,755	1,486	456	6,837	1,253
29	Kyauksè	4,811	1,751	387	128	3,513	950
30	Meiktila	8,695	2,959	1,929	1,028	4,881	1,235
31	Myingyan	12,616	4,517	3,058	1,112	1,326	261
32	Yamèthin	12,921	6,160	675	6	7,748	2,313
33	Bhamo	4,692	887	392	164	...	...
34	Myitkyina	6,432	1,515	183	54	...	...
35	Shwebo	18,099	11,116	186	60	7,705	4,073
36	Sagaing	13,438	6,862	1,359	1,127	8,730	3,582
37	Katha	11,968	2,025	325	28	7,140	969
38	Upper Chindwin	4,885	2,090	2,069	815	3,408	1,466
39	Lower Chindwin	11,776	6,674	824	240	6,519	4,374
40	Northern Shan States ...	22,609	2,104	4,745	1,046	711	91
41	Southern Shan States ...	38,201	4,376	825	150	19,108	908
	TOTAL ...	554,649	323,095	48,477	25,897	286,874	152,078

by Inspecting Officers during the year 1927-28 (Paragraph 15).

Percentage of inspections to total number vaccinated				Percentage of cases found successful of total number inspected				Percentage of success reported by vaccinators.		No.
By Assistant Director of Public Health or Civil Surgeons.		By Inspectors of Vaccination or other Inspecting Officers.		By Assistant Director of Public Health or Civil Surgeons.		By Inspectors of Vaccination or other Inspecting Officers.				
Primary. (9)	Re-vaccinations. (10)	Primary. (11)	Re-vaccinations. (12)	Primary. (13)	Re-vaccinations. (14)	Primary. (15)	Re-vaccinations. (16)	Primary. (17)	Re-vaccinations. (18)	(1)
8·77	14·86	45·68	51·47	90·78	50·22	71·27	29·85	89·42	56·85	1
6·06	22·62	19·15	17·22	95·45	78·68	97·12	66·67	90·17	52·92	2
33·12	15·76	41·24	49·91	89·71	55·89	75·30	22·93	92·83	44·83	3
16·95	2·95	62·51	49·95	78·33	12·90	84·71	6·48	89·14	5·63	4
5·29	3·56	82·18	64·46	96·82	62·32	97·81	50·01	95·58	50·79	5
13·15	21·63	74·94	54·92	96·89	46·82	99·52	23·21	98·67	29·62	6
2·61	1·32	76·83	42·43	100·00	30·61	99·77	37·97	99·68	45·00	7
2·33	5·13	55·56	30·48	81·59	22·86	84·80	15·21	86·07	28·53	8
2·84	1·13	59·72	39·49	80·49	...	80·28	12·41	86·73	16·62	9
7·12	1·61	50·16	12·40	99·35	34·92	99·12	40·82	99·37	30·31	10
2·58	1·43	60·84	47·54	94·55	73·33	86·59	40·95	92·28	48·80	11
2·23	...	52·32	37·08	98·17	...	91·52	10·72	92·68	11·29	12
2·39	·44	51·30	38·18	75·75	88·24	91·78	35·21	95·28	34·20	13
2·02	2·09	84·99	72·14	96·11	14·66	99·47	7·01	99·24	10·42	14
18·17	21·61	82·36	60·54	98·91	28·11	99·39	19·96	99·03	20·87	15
2·20	2·01	30·13	23·19	99·21	28·38	96·67	27·90	95·30	31·77	16
12·09	4·83	44·81	36·92	84·26	81·10	88·99	24·81	89·38	23·27	17
14·18	12·79	70·25	41·44	94·00	44·55	96·01	19·84	97·03	22·13	18
66·16	40·41	75·27	67·68	90·14	53·02	89·52	53·14	85·39	53·27	19
14·21	14·48	63·66	51·63	73·82	19·30	54·75	10·13	67·04	23·49	20
5·41	·43	55·56	54·26	100·00	34·78	96·66	32·81	98·37	30·09	21
...	...	34·74	72·36	...	...	84·18	59·95	86·78	73·71	22
2·08	...	19·01	3·49	97·35	...	91·70	16·67	93·86	39·88	23
1·24	3·75	39·70	20·98	67·43	28·18	86·98	31·11	92·31	33·52	24
5·05	2·22	38·21	34·60	88·90	5·97	83·89	9·07	81·00	5·87	25
33·31	8·34	30·70	39·50	83·41	50·00	73·78	37·79	81·35	57·86	26
...	...	...	...	...	...	...	...	94·30	41·33	27
11·42	6·75	52·54	18·55	85·26	29·17	93·52	51·40	88·54	45·43	28
8·04	7·31	73·02	54·25	96·90	36·72	98·86	52·74	99·13	49·96	29
22·19	34·74	56·14	41·74	97·87	41·93	89·86	31·58	87·04	38·83	30
24·24	24·62	10·51	5·78	96·21	37·50	80·62	10·73	91·90	23·82	31
5·22	·10	59·96	37·55	78·67	83·33	91·55	24·38	87·39	29·40	32
8·35	18·49	...	...	81·12	62·20	...	...	91·60	64·63	33
2·85	3·56	...	...	79·78	31·48	...	...	97·18	71·14	34
1·03	·54	42·57	36·64	95·70	58·33	86·83	45·99	84·73	55·56	35
10·11	16·42	64·97	52·20	90·58	37·89	89·63	41·18	85·17	39·62	36
2·72	1·38	59·66	47·85	95·38	3·57	91·78	18·47	94·13	20·59	37
42·35	39·00	69·76	70·14	85·50	57·91	81·98	47·68	91·58	67·12	38
7·00	3·60	55·36	65·54	95·87	67·08	83·88	63·97	84·92	65·78	39
20·99	49·71	3·14	4·33	98·04	68·64	98·03	70·33	97·73	77·77	40
2·16	3·43	50·02	20·75	99·52	66·67	95·48	45·81	89·96	39·40	41
8·74	8·02	51·72	47·07	92·08	47·75	91·37	37·91	92·16	39·88	

APPENDIX A.—*Statement showing the ratio per* 10,000 *successfully vaccinated and the mortality from Small-pox by quinquennial periods.*

Official Year. (1)	Ratio per 10,000 successfully vaccinated. (2)	Quinquennial Mean. (3)	Calendar Year. (4)	Ratio per 10,000 of mortality from small-pox. (5)	Quinquennial Mean. (6)
1912-13 ...	386·16		1912 ...	8·08	
1913-14 ...	367·34		1913 ...	2·86	
1914-15 ...	332·06	356·30	1914 ...	·26	2·43
1915-16 ...	330·70		1915 ...	·22	
1916-17 ...	365·25		1916 ...	·72	
1917-18 ...	347·10		1917 ...	·57	
1918-19 ...	392·57		1918 ...	·76	
1919-20 ...	524·21	422·91	1919 ...	3·99	1·81
1920-21 ...	443·70		1920 ...	2·90	
1921-22 ...	408·22		1921 ...	·92	
1922-23 ...	431·94		1922 ...	1·34	
1923-24 ...	456·24		1923 ...	2·63	
1924-25 ...	466·23	373·14	1924 ...	2·31	2·40
1925-26 ...	477·33		1925 ...	3·56	
1926-27 ...	407·11		1926 ...	2·16	
1927-28 ...	446·76		1927 ...	1·57	

APPENDIX B.—*Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age* (Paragraph 10), 1927-28.

Towns. (1)	Number of births during the year 1927-28. (2)	Number of deaths among children under one year during the year. (3)	Number of successful operations on children under one year during the year ending 31st March 1928. (4)	Date of extension of Vaccination Act of 1880 into towns. (5)	Date of extension of Vaccination Law Amendment Act of 1909. (6)
Akyab ...	566	292	383	August 1883 ...	29th March 1910.
Kyaukpyu ...	76	9	43	April 1894 ...	Do.
Sandoway ...	111	18	74	September 1890	Do.
Rangoon ...	7,632	2,088	7,325	April 1884 ...	1st May 1909.
Pegu ...	617	200	707	March 1893 ...	29th March 1910.
Nyaunglèbin ...	193	59	249	29th March 1910	Do.
Tharrawaddy ...	107	22	73	October 1897	
Thônzè ...	179	36	151	October 1897 ...	29th March 1910.
Zigôn ...	152	37	107	11th May 1914 ...	9th Sept. 1915.
Letpadan ...	125	47	75	January 1897 ...	29th March 1910.
Gyobingauk ...	114	77	62	February 1897 ...	Do.
Minhla ...	88	24	77	11th May 1914 ...	9th Sept. 1915.
Nattalin ...	121	27	91	11th May 1914 ...	Do.
Syriam ...	315	60	128	29th January 1913	29th January 1913.
Thôngwa ...	262	38	149	3rd March 1914	3rd March 1914.
Insein ...	295	67	413	14th March 1912	14th March 1912.
Thamaing ...	78	11	66	26th May 1926 ...	26th May 1926.
Kamayut ...	69	19	72	Do. ...	Do.
Thingangyaung ...	105	26	75	Do. ...	Do.
Kanbe ...	155	36	115	Do. ...	Do.
Prome ...	572	47	489	June 1890 ...	29th March 1910.
Shwedaung ...	181	62	92	10th Sept. 1917.	
Paungdè ...	255	47	175	August 1890 ...	29th March 1910.
Bassein ...	1,240	383	1,345	September 1888	Do.
Ngathainggyaung ...	123	38	58	February 1890 ...	Do.
Kyônpyaw ...	150	30	6	26th Dec. 1923	
Henzada ...	739	224	598	January 1889 ...	29th March 1910.
Myanaung ...	245	74	133	July 1889 ...	Do.
Kyangin ...	175	51	98	August 1894 ...	Do.
Myaungmya ...	167	52	107	June 1894 ...	Do.
Wakèma ...	237	77	107	27th April 1907 ...	Do.
Mawlamyainggyun...	178	56	178	20th July 1925 ...	20th July 1925.
Ma-ubin ...	179	57	199	October 1891 ...	29th March 1910.
Yandoon ...	244	40	223	January 1892 ...	Do.

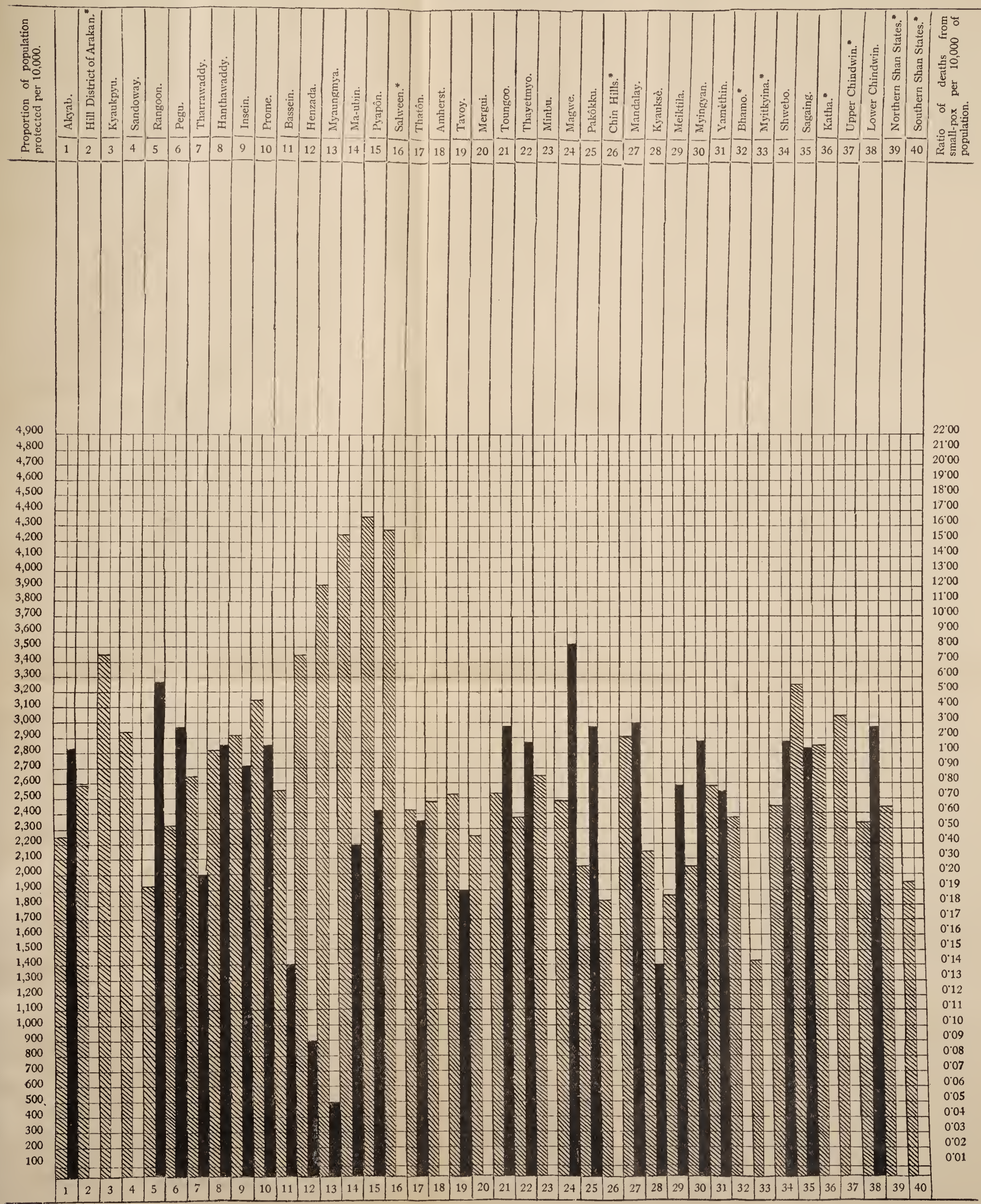
APPENDIX B.—*Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age* (Paragraph 10), 1927-28—concld.

Towns. (1)	Number of births during the year 1927-28. (2)	Number of deaths among children under one year during the year. (3)	Number of successful operations on children under one year during the year ending 31st March 1928. (4)	Date of extension of Vaccination Act of 1880 into towns. (5)	Date of extension of Vaccination Law Amendment Act of 1909. (6)
Danubyu ...	148	30	146	9th July 1909.	
Pyapôn ...	199	30	379	November 1904	29th March 1910.
Kyaiklat ...	203	63	120	15th Dec. 1904 ...	Do.
Thatôn ...	514	73	278	October 1891 ...	Do.
Kyaikto ...	147	41	149	March 1897 ...	Do.
Moulmein ...	1,649	344	1,294	August 1885 ...	Do.
Kawkareik ...	286	127	139	September 1914	17th Sept. 1914.
Tavoy ...	870	126	862	December 1889	29th March 1910.
Mergui ...	557	163	419	October 1891 ...	Do.
Toungoo ...	422	61	304	May 1889 ...	Do.
Shwegyin ...	145	17	71	January 1890 ...	Do.
Pyu ...	189	32	49	January 1920 ...	17th January 1920.
Thayetmyo ...	241	129	420	May 1889 ...	29th March 1910.
Allanmyo ...	220	59	232	May 1901 ...	Do.
Minbu ...	172	52	163	March 1896 ...	Do.
Salin ...	231	67	122	March 1896 ...	Do.
Magwe ...	478	72	132	10th March 1913	10th March 1913.
Taungdwingyi ...	388	136	225	February 1893 ...	29th March 1910.
Yenangyaung ...	433	100	204	10th March 1913	10th March 1913.
Pakôkku ...	523	273	291	April 1892 ...	29th March 1910.
Mandalay ...	7,614	2,212	5,188	August 1891 ...	Do.
Maymyo ...	705	145	396	October 1912 ...	22nd October 1912.
Kyauksè ...	232	49	191	May 1894 ...	29th March 1910.
Meiktila ...	310	104	268	June 1906 ...	31st July 1922.
Myingyan ...	571	214	288	September 1891	29th March 1910.
Nyaung-u ...	173	37	95	30th August 1921	30th August 1921.
Yamèthin ...	273	107	218	February 1892 ...	29th March 1910.
Pyinmana ...	502	180	393	November 1891...	Do.
Pyawbwè ...	159	57	186	May 1912.	
Bhamo ...	177	38	182	26th October 1894	29th March 1910.
Shwebo ...	511	157	332	June 1894 ...	Do.
Sagaing ...	427	126	283	April 1894 ...	Do.
Mônywa ...	339	132	248	March 1893 ...	Do.
Total ...	36,053	9,984	28,510		

G.B.C.P.O.—No. 67, D.P.H., 13-9-1928—480.

APPENDIX C.

Diagram showing the Proportion of Population protected during the seven official years from 1921-22 to 1927-28 and the Death-rate from Small-pox during the year 1927 in districts where full registration is in force.



* Deaths are not classified according to disease in these Districts.

Indicates proportion of population protected per 10,000.

Indicates ratio of deaths from small-pox per 10,000 of population.

G.B.C.P.O.—No. 67, D.P.H. 18-9-192 5. 480. L.